

**Signing Physical Science Dictionary  
User's Guide**

# Welcome to the Mobile Signing Physical Science Dictionary (SPSD)!

The Signing Physical Science Dictionary (SPSD) is an interactive 3D sign language dictionary designed for students in grades 7-12 who are deaf or hard of hearing and studying physical science content. It is also intended to serve as a resource for teachers and other professionals who work with them. The SPSD is one in a series of fully animated, illustrated and Interactive 3D signing dictionaries designed for students who use ASL or SE for communication.

The SPSD supports access to standards-based physical science content among middle and high school students and is a great resource for teachers and parents!

## In this Guide, you will learn how to:

- ❖ Download and install the App
- ❖ Use the iPod Touch device
- ❖ Navigate the SPSD on the iPod Touch, iPad, or iPhone

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Patent 6,535,215.



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## Compatible Devices

MSMP can be downloaded and installed on any of the following Apple mobile devices:

- iPod Touch, 3<sup>rd</sup> generation or newer with iOS 4.3+
- iPhone, 3GS or newer with iOS 4.3+
- iPad, including mini and Air

If you are not certain what version of the Operating System (iOS) your device has, just proceed with the download instructions below – if you need to update, you will receive a message when you try to download.

## Downloading SPSD

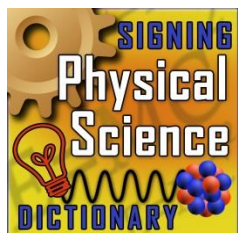


Click on the App Store icon on your mobile device. Click on the Search icon at the bottom of the screen. Search on "Vcom3D" and locate Signing Physical Science Dictionary.

The SPSD app is large and may take several minutes to install, depending on your Internet connection.

When the installation is complete, the SPSD icon will appear on your devices screen.

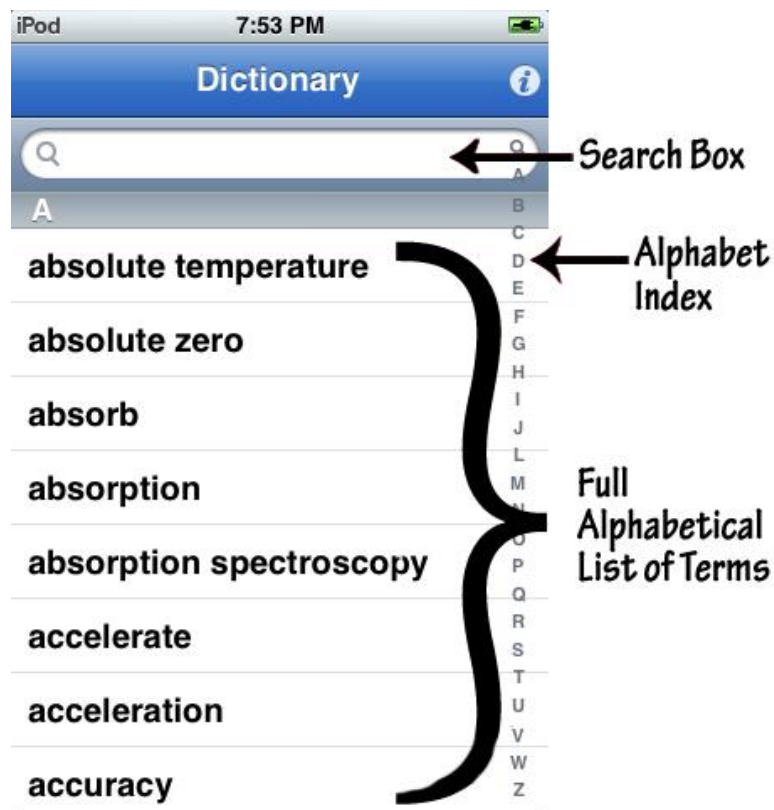
To access the Signing Physical Science Dictionary, select the SPSD icon by tapping the button on the home screen of the mobile device.



The SPSD Icon

# Getting to Know the SPSD

## Alphabet Page



The Alphabet Page of the SPSD is your home page. The Alphabet Page contains the complete alphabetical listing of all terms in the SPSD. From here, you can select a term and go to its Definition Page. There are three ways to find a term as outlined below. When you find the term you want, refer to the section in this Guide on how to use the Definition Page. If you want to look up a specific term, refer to the section in this Guide on how to use the Search Box.

1. Use your finger to scroll through the Alphabetic List of Terms. Stop at the term you need and tap on it to go to its Definition Page.
2. Use the Alphabetic Index at the right of the screen to go directly to a letter in the alphabet and find the term you need. Tap and hold your finger on the desired letter to advance the Alphabetic Index to the terms starting with that letter. Scroll up or down the Alphabetic Index to get to the desired letter. Go back to the Alphabetic List of Terms and scroll to find the desired term. Stop at the term you need and tap on it to go to its Definition Page.
3. Tap on the Search Box. A keyboard will appear which allows you to type in the word you want to find. When your word appears, tap on it to go to its Definition Page.

Note that some terms may be in other Signing Science Dictionaries that you have installed. In this case, the dictionary that they are in will be shown in parentheses after the term. If you click a term in another dictionary, you will be taken to that other dictionary. To return to the SPSD, tap the Previous Dictionary button.

If you have installed Diccionario de Señas de la Ciencia Física, you can tap Spanish Dictionary to see a translation of the term and its definition into Spanish.

If you are using an iPad, you will be able to view the App at two different sizes. There will be a "1X" or "2X" selector in the lower right corner of the screen. Tap this selector to toggle between half-screen and full-screen sizes.

## Definition Page

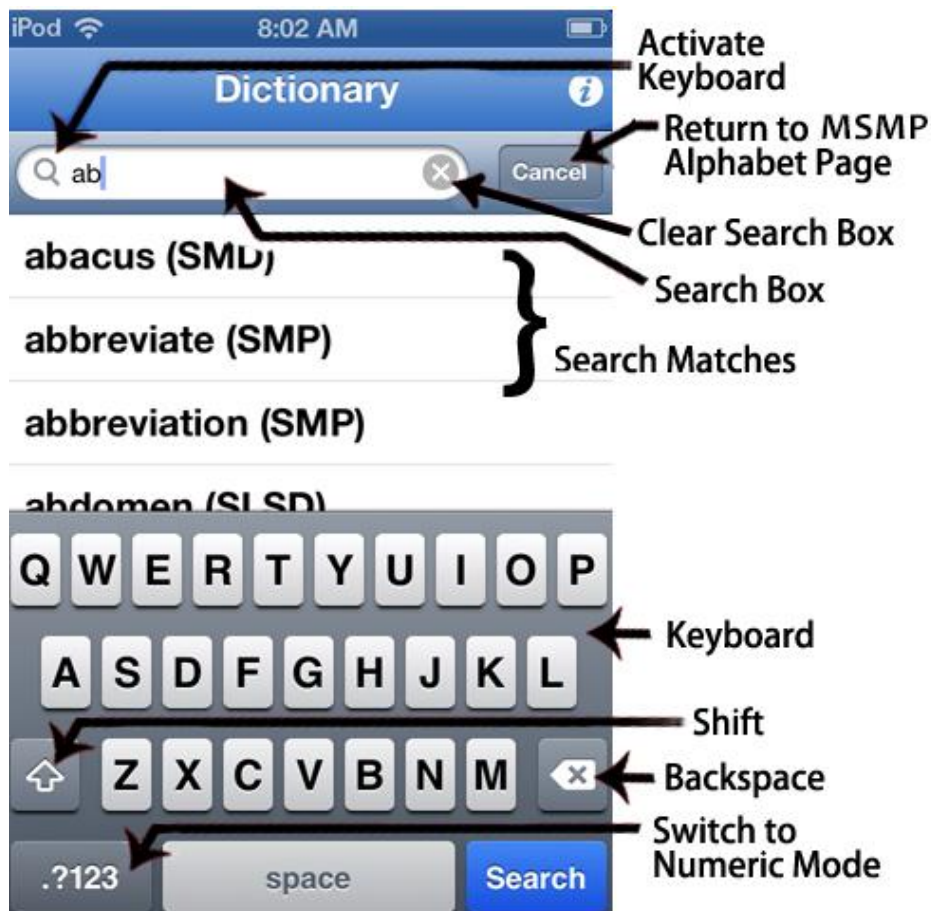
The screenshot shows the iPad Dictionary app interface for the word "absorb". At the top, the status bar displays "iPod", signal strength, "8:01 AM", and battery level. Below the status bar is a navigation bar with a "Dictionary" button on the left and the word "absorb" in the center. A callout arrow points from the "absorb" text to the text "Return to SPSD Alphabet Page".

The main content area displays the word "absorb" in large blue text. Below it, the part of speech "verb" is shown, followed by two buttons: "ASL" and "SE". A callout arrow points from the "ASL" button to the text "Sign the Term". Below the part of speech, the text "it absorbs, it absorbed, it has absorbed, it is absorbing" is displayed. A callout arrow points from this text to the text "Go to an Illustration". Below this text is a blue icon of a pencil writing on a notepad. A callout arrow points from this icon to the text "Listen to a Human Voice Narration". Below the icon, the text "it absorbs, it absorbed, it has absorbed, it is absorbing" is repeated. Below this, the definition "To absorb means to take in. For example, sponges absorb water." is shown. A callout arrow points from this definition to the text "Sign the Definition". Below the definition, there are two buttons: "ASL" and "SE", with a speaker icon to the right of the "SE" button. A callout arrow points from the "SE" button to the text "Return to Previous Dictionary". Below these buttons are two more buttons: "Previous Dictionary" and "Spanish Dictionary". A callout arrow points from the "Spanish Dictionary" button to the text "Go to term in Spanish Dictionary". At the bottom of the screen, there is a link "sponge (SLSD)" in blue text. A callout arrow points from this link to the text "Go to Another Meaning or to a Term Within a Definition".

The Definition Page contains the information for each term included in the SPSD. Each page contains the term, part of speech, definition and an illustration. Terms within each definition or other meanings of the term are listed below the definition and can be linked to with one click. You can return to the word previously visited by clicking the Previous Word icon or return to the Alphabet Page by selecting the "Signing Physical Science Dictionary" button at the top of the page. If you cannot see the Previous Word button, place your finger on the page and drag it up to see the rest of the page.

While in the Definition Page, you can make the text and buttons larger by pinching or stretching two of your fingers while touching the screen. You can then drag your fingers over the screen to move the text around. This is helpful if you have trouble reading the text, or if you have trouble tapping just the word or button that you want.

## Using the Search Box



You can use the Search Box to find a specific term. To activate the search feature from the Alphabet page, tap on the text field next to the magnifying glass in the Search Box. A keyboard will appear at the bottom of the screen that allows you to type in your term. You can switch between lowercase and uppercase by selecting the up arrow button and backspace by selecting the left arrow. To clear all the text in the text field at once, tap on the "x" button in the search bar.

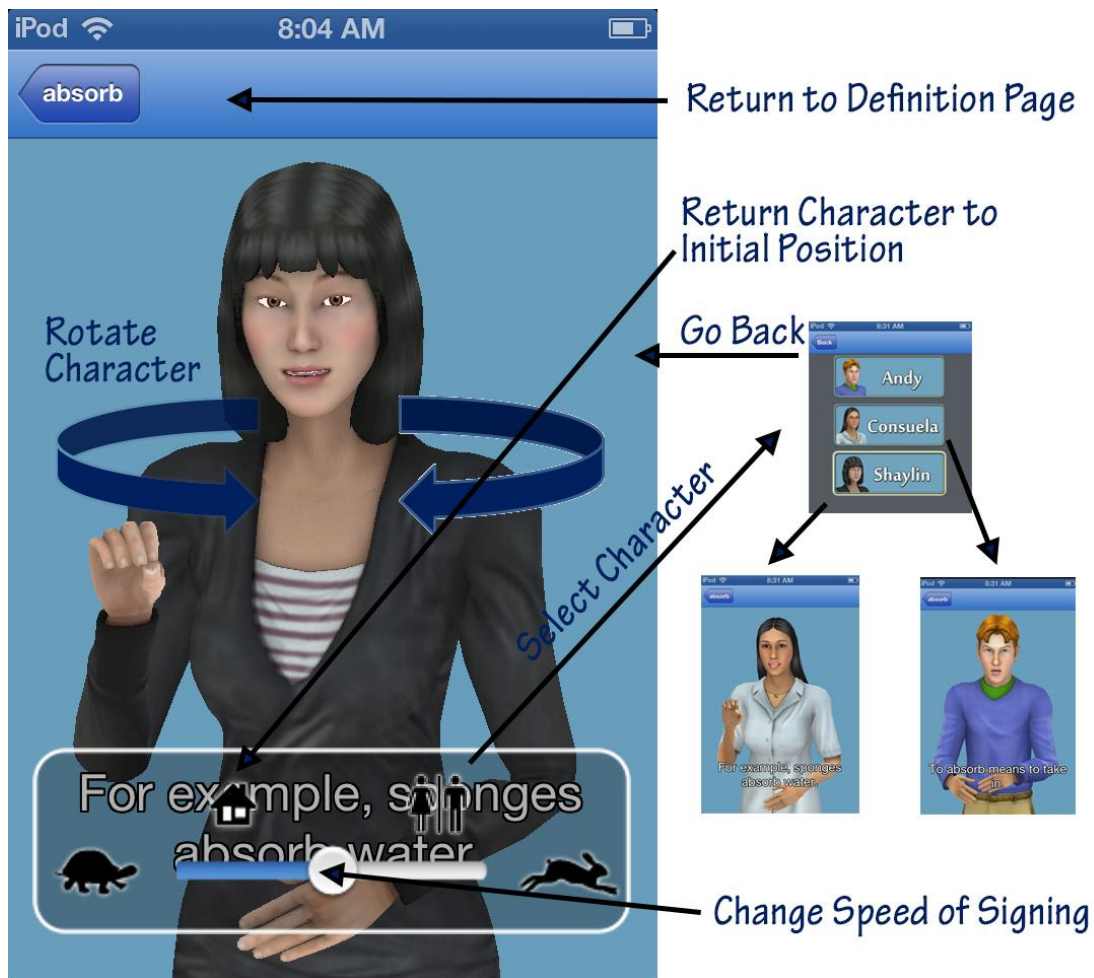
As you type, the search box will display words that closely match the spelling of the text in the text field. You can select any term to continue to its Definition page.

## Signing Text in American Sign Language (ASL) or Signed English (SE)

For each section of text, you have the choice of seeing the SigningAvatar character sign in American Sign Language (ASL) or Signed English (SE). From the Definition Page:

- Tap an ASL Icon **ASL** to see the SigningAvatar character sign the text in American Sign Language.
- Tap an SE Icon **SE** to see the SigningAvatar character sign the text in Signed English.

The Definition Page will be replaced by the Signing Window shown below, where you will see one of three characters sign the term or definition you selected. Captions will be displayed below the signing character. If you drag one finger over the character, the character will rotate so that you can see the signing from other angles. You can also touch the screen with two fingers and pinch, stretch, or drag your fingers to zoom out, zoom in, or move the character, respectively.






## Personalizing the Signing Window

If you click in the signing window while a character is signing, an overlay will appear at the bottom of the screen that includes three controls:



- Click the side-by-side icon of a male and female character  to bring up the Character Selector. You can then select Alex, Tia, or Webster to be your Avatar character.
- Click the “home” icon to return the character to its original position in the window.
- Slide the speed control between the images of the turtle and rabbit will slow down or speed up the signing.

## Seeing an Illustration of a Definition

From the Signing Window, you can click the button at the top left corner of the window to return to the Definition Page.



Tap the Illustration Icon  and a picture that is a visual view of the definition will appear.

To close a picture, click on the illustration box.

## Signing Individual Terms within a Definition

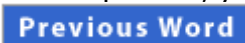
You can select a word in a definition and the SigningAvatar character will sign that word.

Below many definitions, you will find a list of terms within the definition that are included in the SPSD. Tapping on these terms takes you to its Definition Page.

## Going to Definition Pages for Terms Within a Definition

If you select a term from the list that appears below the definition, you’ll be taken to the Definition Page for that term. Tapping the Previous Word Icon takes you back to the page you were viewing.

## Revisiting Terms

As you look up terms, you’ll notice a Previous Word Icon appears at the bottom of the Definition Page . Tapping this icon takes you back to the Definition Page for the term you last viewed.